

METHOD OF OPERATION
TEST SET CIRCUIT

Relay Adjusting Test Set - For Testing Various Relays In Full Mechanical -
Relay Call Indicator And P.B.X. Circuits - Relay Switchboard #1 and Machine
Switching Systems

NEW YORK TELEPHONE COMPANY

This circuit is used for testing various types of relays used in
Full Mechanical Relay Call Indicator and P.B.X. Circuits.

The A and B jacks are used for connecting ground, 24 and 48 volt
battery to the test set when a patching cord can be used. Three wing - nut
binding posts are provided for use where it is necessary to use connecting wires.

The C and D jacks are provided for connecting a special portable key
(not shown on this drawing) to the test set. The portable key may be used in
place of the operate and non-operate keys in the test set.

The jack marked "TST" is used for patching the test set to the relay
to be tested when it is possible to use a patching cord. For places where it
is necessary to use connecting wires two wing - nut binding posts designated T
and R are used.

The "MET" key is used for disconnecting the ground when battery is
supplied by the circuit under test.

The keys 48-V (R), 48 V (T), 24 V (R) and 24 V (T) are used to
connect 48 volts or 24 volts to the test jack.

The reverse key "REV" is for reversing the connections to the milli-
meter when the "MET" key is used.

The 30 MA, 120 MA and 600 MA keys are for connecting the various
millimeter coils to the circuit.

The long and short resistance drums are for varying the resistance
in the tip of the circuit in either small or large steps.

The INT. KEY when normal, short circuits the contacts of the special
#50-C keys per D-20117 and D-20118. The "HOLD INT" key when wound up and re-
leased, makes one revolution in from 12 to 13 seconds. The contacts are ad-
justed to have equal make and break periods of approximately $1/3$ seconds
duration. The "RELEASE INT" key is the same as the "HOLD INT" key except that
the make and break contacts have a duration of approximately $1/2$ seconds.